

106TH CONGRESS  
2D SESSION

# H. R. 4901

To authorize appropriations for fiscal years 2001, 2002, and 2003 for the  
National Science Foundation, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

JULY 20, 2000

Mr. SMITH of Michigan introduced the following bill; which was referred to  
the Committee on Science

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## A BILL

To authorize appropriations for fiscal years 2001, 2002, and  
2003 for the National Science Foundation, and for other  
purposes.

1       *Be it enacted by the Senate and House of Representa-*  
2       *tives of the United States of America in Congress assembled,*

3       **SECTION 1. SHORT TITLE.**

4       This Act may be cited as the “National Science  
5       Foundation Authorization Act of 2000”.

6       **SEC. 2. AUTHORIZATION OF APPROPRIATIONS.**

7       (a) FISCAL YEAR 2001.—

8               (1) IN GENERAL.—There are authorized to be  
9       appropriated to the National Science Foundation  
10       \$3,773,710,000 for fiscal year 2001.

1           (2) SPECIFIC ALLOCATIONS.—Of the amount  
2           authorized under paragraph (1)—

3                   (A) \$2,813,500,000 shall be made avail-  
4                   able to carry out Research and Related Activi-  
5                   ties, of which—

6                           (i) \$480,560,000 shall be made avail-  
7                           able for Biological Sciences;

8                           (ii) \$9,770,000 shall be made avail-  
9                           able for Computer and Information Science  
10                          and Engineering;

11                          (iii) \$403,650,000 shall be made  
12                          available for Engineering;

13                          (iv) \$549,730,000 shall be made avail-  
14                          able for Geosciences;

15                          (v) \$807,200,000 shall be made avail-  
16                          able for Mathematical and Physical  
17                          Sciences;

18                          (vi) \$159,790,000 shall be made avail-  
19                          able for Social, Behavioral, and Economic  
20                          Sciences;

21                          (vii) \$220,970,000 shall be made  
22                          available for United States Polar Research  
23                          Programs;

1 (viii) \$62,600,000 shall be made avail-  
2 able for United States Antarctic Logistical  
3 Support Activities; and

4 (ix) \$119,230,000 shall be made avail-  
5 able for Integrative Activities;

6 (B) \$726,700,000 shall be made available  
7 for Education and Human Resources, of which  
8 \$53,080,000 shall be for Graduate Research  
9 Fellowships;

10 (C) \$65,340,000 shall be made available  
11 for Major Research Equipment;

12 (D) \$161,890,000 shall be made available  
13 for Salaries and Expenses, of which—

14 (i) \$3,690,000 shall be made available  
15 for travel for Research and Related Activi-  
16 ties;

17 (ii) \$310,000 shall be made available  
18 for travel for Education and Human Re-  
19 sources;

20 (iii) \$159,000 shall be made available  
21 for travel for Budget, Finance, and Award  
22 Management;

23 (iv) \$182,000 shall be made available  
24 for travel for Information and Resources  
25 Management; and

1 (v) \$358,468 shall be made available  
2 for travel for the Office of the Director;  
3 and

4 (E) \$6,280,000 shall be made available for  
5 the Office of Inspector General.

6 (3) TRAVEL LIMITATION.—None of the funds  
7 authorized by this subsection may be used for travel  
8 expenses except as provided in paragraph (2)(D) (i)  
9 through (v). None of the funds authorized by clauses  
10 (i) through (iv) of paragraph (2)(D) may be used for  
11 travel expenses for personnel in the Office of the Di-  
12 rector.

13 (b) FISCAL YEAR 2002.—

14 (1) IN GENERAL.—There are authorized to be  
15 appropriated to the National Science Foundation  
16 \$3,924,658,000 for fiscal year 2002.

17 (2) SPECIFIC ALLOCATIONS.—Of the amount  
18 authorized under paragraph (1)—

19 (A) \$2,909,313,000 shall be made avail-  
20 able to carry out Research and Related Activi-  
21 ties, of which—

22 (i) \$496,925,000 shall be made avail-  
23 able for Biological Sciences;

1 (ii) \$10,103,000 shall be made avail-  
2 able for Computer and Information Science  
3 and Engineering;

4 (iii) \$417,396,000 shall be made  
5 available for Engineering;

6 (iv) \$568,451,000 shall be made avail-  
7 able for Geosciences;

8 (v) \$834,689,000 shall be made avail-  
9 able for Mathematical and Physical  
10 Sciences;

11 (vi) \$165,232,000 shall be made avail-  
12 able for Social, Behavioral, and Economic  
13 Sciences;

14 (vii) \$228,495,000 shall be made  
15 available for United States Polar Research  
16 Programs;

17 (viii) \$64,732,000 shall be made avail-  
18 able for United States Antarctic Logistical  
19 Support Activities; and

20 (ix) \$123,290,000 shall be made avail-  
21 able for Integrative Activities;

22 (B) \$751,448,000 shall be made available  
23 for Education and Human Resources, of which  
24 \$54,400,000 shall be for Graduate Research  
25 Fellowships;

1 (C) \$90,000,000 shall be made available  
2 for Major Research Equipment;

3 (D) \$167,403,000 shall be made available  
4 for Salaries and Expenses, of which—

5 (i) \$3,816,000 shall be made available  
6 for travel for Research and Related Activi-  
7 ties;

8 (ii) \$321,000 shall be made available  
9 for travel for Education and Human Re-  
10 sources;

11 (iii) \$164,000 shall be made available  
12 for travel for Budget, Finance, and Award  
13 Management;

14 (iv) \$188,000 shall be made available  
15 for travel for Information and Resources  
16 Management; and

17 (v) \$371,000 shall be made available  
18 for travel for the Office of the Director;  
19 and

20 (E) \$6,494,000 shall be made available for  
21 the Office of Inspector General.

22 (3) TRAVEL LIMITATION.—None of the funds  
23 authorized by this subsection may be used for travel  
24 expenses except as provided in paragraph (2)(D) (i)  
25 through (v). None of the funds authorized by clauses

1 (i) through (iv) of paragraph (2)(D) may be used for  
2 travel expenses for personnel in the Office of the Di-  
3 rector.

4 (c) FISCAL YEAR 2003.—

5 (1) IN GENERAL.—There are authorized to be  
6 appropriated to the National Science Foundation  
7 \$4,081,645,000 for fiscal year 2003.

8 (2) SPECIFIC ALLOCATIONS.—Of the amount  
9 authorized under paragraph (1)—

10 (A) \$3,025,686,000 shall be made avail-  
11 able to carry out Research and Related Activi-  
12 ties;

13 (B) \$781,506,000 shall be made available  
14 for Education and Human Resources;

15 (C) \$93,600,000 shall be made available  
16 for Major Research Equipment;

17 (D) \$174,099,000 shall be made available  
18 for Salaries and Expenses; and

19 (E) \$6,754,000 shall be made available for  
20 the Office of Inspector General.

21 **SEC. 3. PLANT GENOMICS.**

22 (a) PLANT GENOME RESEARCH.—Of the amounts  
23 made available under section 2 (a)(2)(A)(i), (b)(2)(A)(i),  
24 and (c)(2)(A), \$129,000,000 for each of fiscal years 2001,  
25 2002, and 2003 shall be for plant genome research.

1 (b) PLANT GENOME AND GENE EXPRESSION RE-  
2 SEARCH AND DEVELOPMENT CENTERS.—

3 (1) CENTERS.—The National Science Founda-  
4 tion is authorized to make grants for the establish-  
5 ment of regional plant genome and gene expression  
6 research and development centers, the purpose of  
7 which shall be to—

8 (A) develop capabilities in basic plant ge-  
9 nome research;

10 (B) extend basic plant genomics research  
11 through plant breeding programs and accelerate  
12 its application—

13 (i) to the development and testing of  
14 new varieties of enhanced food crops; and

15 (ii) for alternative uses of agricultural  
16 crops; and

17 (C) serve as centers for scientific and safe-  
18 ty information on plant genomics.

19 (2) GRANT AWARDS.—Grant awards under this  
20 subsection shall be made through an open, peer-re-  
21 viewed competition. When making awards, the Na-  
22 tional Science Foundation shall ensure that as many  
23 different agronomic environments as possible are  
24 represented.



1           (3) MATCHING FUNDS.—The National Science  
2           Foundation shall not provide under this subsection  
3           more than 50 percent of the cost of establishing any  
4           research and development center.

5           (4) AVAILABILITY OF FUNDS.—The National  
6           Science Foundation may use up to—

7                   (A) \$3,000,000 of the funds described in  
8                   subsection (a) for fiscal year 2001;

9                   (B) \$3,000,000 of the funds described in  
10                  subsection (a) for fiscal year 2002; and

11                  (C) \$4,500,000 of the funds described in  
12                  subsection (a) for fiscal year 2003,

13           to carry out this subsection.

14   **SEC. 4. RESEARCH ON LEARNING.**

15           (a) RESEARCH ON LEARNING.—

16                   (1) IN GENERAL.—The National Science Foun-  
17                  dation shall make grant awards to support research  
18                  on learning focusing on the following 4 areas:

19                           (A) Brain research as a foundation for re-  
20                           search on human learning.

21                           (B) Behavioral, cognitive, affective, and so-  
22                           cial aspects of human learning.

23                           (C) Science, mathematics, engineering, and  
24                           technological learning in formal and informal  
25                           educational settings.

1 (D) Learning in complex educational sys-  
2 tems.

3 The goals of this research shall be to integrate sci-  
4 entific disciplines into research on learning, to gain  
5 a better understanding of how research and edu-  
6 cational practice can be reconciled, and to test,  
7 evaluate, and refine hypotheses across disciplines.

8 (2) AVAILABILITY OF FUNDS.—Of the amounts  
9 authorized under section 2 (a)(1), (b)(1), and (c)(1),  
10 \$25,000,000 for fiscal year 2001, \$29,000,000 for  
11 fiscal year 2002, and \$33,000,000 for fiscal year  
12 2003 shall be available for carrying out this sub-  
13 section.

14 (b) ESTABLISHMENT OF RESEARCH ON LEARNING  
15 CENTERS.—

16 (1) ESTABLISHMENT.—The National Science  
17 Foundation shall make grants for the establishment  
18 of centers of research on learning. The purpose of  
19 these centers shall be to bring together multidisci-  
20 plinary teams of researchers to support the research  
21 goals described in subsection (a)(1). Grant awards  
22 under this subsection shall be made through an  
23 open, peer-reviewed competition.

24 (2) AVAILABILITY OF FUNDS.—Of the amounts  
25 authorized under section 2 (a)(1), (b)(1), and (c)(1),

1       \$6,000,000 for fiscal year 2001, \$6,000,000 for fis-  
2       cal year 2002, and \$9,000,000 for fiscal year 2003  
3       shall be available for carrying out this subsection.

4       (c) INTERAGENCY EDUCATION RESEARCH INITIA-  
5       TIVE.—

6               (1) PARTICIPATION.—The National Science  
7       Foundation is authorized to participate in the Inter-  
8       agency Education Research Initiative.

9               (2) AVAILABILITY OF FUNDS.—Of the amounts  
10      authorized under section 2 (a)(1), (b)(1), and (c)(1),  
11      \$25,000,000 for fiscal year 2001, \$28,000,000 for  
12      fiscal year 2002, and \$31,000,000 for fiscal year  
13      2003 shall be available for carrying out this sub-  
14      section.

15      (d) RESEARCH ON LEARNING CONFERENCE.—With-  
16      in 6 months after the date of the enactment of this Act,  
17      the National Science Foundation shall sponsor a con-  
18      ference on human learning and education research, the  
19      goal of which shall be to bring together researchers from  
20      many disciplines, including the physical sciences, neuro-  
21      logical sciences, social sciences, and education practi-  
22      tioners. The purposes of that conference shall be to review  
23      past research on learning, assess current research efforts,  
24      develop recommendations to address outstanding research

1 issues, and disseminate research results to education prac-  
2 titioners.

3 **SEC. 5. INTERGOVERNMENTAL PERSONNEL ACT ASSIGN-**  
4 **EES.**

5 The National Science Foundation shall not, during  
6 fiscal years 2001, 2002, and 2003, enter into an arrange-  
7 ment under the Intergovernmental Personnel Act of 1970  
8 for the detail of any of its employees to locations other  
9 than National Science Foundation facilities.

10 **SEC. 6. ETHICS PROGRAM.**

11 (a) ESTABLISHMENT.—The Director of the National  
12 Science Foundation shall establish a program providing  
13 for—

14 (1) an external review of the ethics rules and  
15 procedures of the National Science Foundation;

16 (2) after completion of the external review  
17 under paragraph (1), a revision of those rules and  
18 procedures as appropriate; and

19 (3) training of all National Science Foundation  
20 employees on the ethics rules and procedures as re-  
21 vised under paragraph (2).

22 (b) REPORTS TO CONGRESS.—The Director of the  
23 National Science Foundation shall report to the Com-  
24 mittee on Science of the House of Representatives, and  
25 to the Committee on Health, Education, Labor, and Pen-

1 sions and the Committee on Commerce, Science, and  
2 Transportation of the Senate, at least once every 6 months  
3 on—

4 (1) the number of National Science Foundation  
5 employees trained pursuant to subsection (a)(3); and

6 (2) the number and type of ethics violations de-  
7 termined under the rules and procedures of the Na-  
8 tional Science Foundation to have occurred, along  
9 with a description of the resolution thereof.

10 **SEC. 7. BASIC RESEARCH AWARD.**

11 Not later than 6 months after the date of the enact-  
12 ment of this Act, the National Science Foundation, in con-  
13 sultation with universities and the private sector, shall  
14 make recommendations to the Congress on the establish-  
15 ment of a congressional award to honor and recognize  
16 those private sector companies that have demonstrated  
17 outstanding performance promoting the expansion of basic  
18 research efforts in the United States.

19 **SEC. 8. TECHNICAL AMENDMENTS.**

20 The National Science Foundation Act of 1950 is  
21 amended—

22 (1) in section 3(b) (42 U.S.C. 1862(b)), by  
23 striking “including the Office of Technology Assess-  
24 ment,”

1           (2) in section 5(e)(2) (42 U.S.C. 1864(e)(2)),  
2       by striking “Labor and Human Resources” and in-  
3       serting “Health, Education, Labor, and Pensions”;  
4       and

5           (3) in section 13(a) (42 U.S.C. 1872(a)), by  
6       striking “or the affidavit of allegiance to the United  
7       States required by section 15(d)(2) of this Act”.

8   **SEC. 9. REPORTS ELIMINATION.**

9       Section 3003(a)(1) of the Federal Reports Elimini-  
10   nation and Sunset Act of 1995 (31 U.S.C. 1113 note)  
11   does not apply to any report required to be submitted  
12   under any of the following provisions of law:

13           (1) Section 4(j)(1) of the National Science  
14   Foundation Act of 1950 (42 U.S.C. 1863(j)(1)).

15           (2) Section 36(f) of the Science and Engineer-  
16   ing Equal Opportunities Act (42 U.S.C. 1885c(f)).

17           (3) Section 37 of the Science and Engineering  
18   Equal Opportunities Act (42 U.S.C. 1885d).

19           (4) Section 108 of the National Science Foun-  
20   dation Authorization Act for Fiscal Year 1986 (42  
21   U.S.C. 1886).

22           (5) Section 101(a)(3) of the High-Performance  
23   Computing Act of 1991 (15 U.S.C. 5511(a)(3)).

1           (6) Section 3 (a)(7) and (f) of the National  
2       Science Foundation Act of 1950 (42 U.S.C. 1862  
3       (a)(7) and (f)).

4           (7) Section 7(a) of the National Science Foun-  
5       dation Authorization Act, 1977 (42 U.S.C. 1873  
6       note).

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